## Amendments to the Claims

The Listing of Claims presented below will replace all prior versions, and listings, of claims in the application.

## **Listing of Claims**

- 1-46. (Canceled)
- 47. (New) An array comprising:
  - a support; and
- a library of chemical compounds attached to the support in a linear arrangement, the library being combinatorial in that its members can be generated via chemical reactions in which a first set of moieties is attached to a second set of intermediates so that a larger number of products is produced than different chemical reactions are performed.
- 48. (New) An array comprising:
  - a support;
  - a collection of chemical compounds linearly arranged along the support; and
  - a geometric substrate about which the support is wrapped.
- 49. (New) The array of claim 48, wherein each of the chemical compounds is covalently attached to the support.
- 50. (New) The array of claim 47, further comprising a substrate about which the support is wrapped.
- 51. (New) An array comprising:
  - a support; and
- a library of chemical compounds covalently attached to the support in a linear arrangement, wherein members of the library are related to one another by synthetic history, such

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Atty. Docket No: 2003118-0002 Client Ref.: T00001US/5002 that each member of a first subset of compounds within the library shares a first common feature resulting from a first common chemical reaction, and each member of the first subset of compounds is separated from each next closest member by a first distance.

- 52. (New) The array of claim 51, wherein each member of a second subset of compounds within the library shares a second common feature resulting from a second common chemical reaction, and each member of the second subset of compounds is separated from each next closest member by a second distance, the second distance being different from the first distance.
- 53. (New) The array of claim 51, wherein the array comprises at least three subsets of compounds, wherein each member of a subset of compounds within the library shares a common feature resulting from a common chemical reaction, and each member of the subset of compounds is separated from each next closest member by a distance, the distance being a characteristic of the subset.
- 54. (New) The array of claim 51, 52, or 53, further comprising a geometric substrate about which the support is wrapped.
- 55. (New) The array of claim 48, 49, or 50, wherein the support is wrapped about the substrate in a spiral.
- 56. (New) The array of claim 54, wherein the support is wrapped about the substrate in a spiral.
- 57. (New) The array of claim 48 or 49, wherein the collection of chemical compounds comprises a library that is combinatorial in that its members can be generated via chemical reactions in which a first set of moieties is attached to a second set of intermediates so that a larger number of products is produced than different chemical reactions are performed.

Atty. Docket No: 2003118-0002 Client Ref.: T00001US/5002 58. (New) The array of claim 51, wherein the library of chemical compounds is combinatorial in that its members can be generated via chemical reactions in which a first set of moieties is attached to a second set of intermediates so that a larger number of products is produced than different chemical reactions are performed.